

AMENDMENTS TO THE CLAIMS

Claims 1-22 (Cancelled)

23. (New) A method of controlling a pile loom that is provided with a device for calculating a pile scale factor based on a ratio between consumption of a ground warp and consumption of a pile warp during pile weaving, said method comprising:

setting a tolerance relative to the pile scale factor;

correcting at least one weaving condition parameter associated with a weight of pile so as to change the pile scale factor in a direction toward returning the pile scale factor to a value within the tolerance when a calculated pile scale factor deviates from the tolerance; and

not correcting the weaving condition parameter when the calculated pile scale factor is within the tolerance.

24. (New) A method of controlling a pile loom that is provided with a device for calculating a pile scale factor based on a ratio between consumption of a ground warp and consumption of a pile warp during pile weaving, said method comprising:

setting a tolerance relative to the pile scale factor;

correcting at least one weaving condition parameter associated with a weight of pile so as to change the consumption of the pile warp in a direction toward returning the consumption of the pile warp to a value within the tolerance when a calculated consumption of the pile warp deviates from the tolerance; and

not correcting the weaving condition parameter when the calculated consumption of the pile warp is within the tolerance.

25. (New) The method of controlling a pile loom according to claim 23, wherein said setting sets the tolerance in consideration of a standard of the pile fabric being made by the pile loom.

26. (New) The method of controlling a pile loom according to claim 23, wherein the at least one weaving condition parameter includes a weft density of a pile fabric, and when the calculated pile scale factor deviates from the tolerance, the revolution of a take-up roll is corrected to change the weft density.

27. (New) The method of controlling a pile loom according to claim 24 wherein the at least one weaving condition parameter includes a weft density of a pile fabric, and when the calculated consumption of the pile warp deviates from the tolerance, the revolution of a take-up roll is corrected to change the weft density.

28. (New) The method of controlling a pile loom according to claim 23, wherein the pile loom includes a ground warp let-off control device for controlling the revolution of a ground warp let-off beam so as to tend to cancel deviation between a target ground warp tension and actual tension of the ground warp and the at least one weaving condition parameter includes the target ground warp tension of the ground warp to be set, and wherein if the calculated pile scale factor deviates from the tolerance, the ground warp tension of the ground warp is changed.

29. (New) The method of controlling a pile loom according to claim 24, wherein the pile loom includes a ground warp let-off control device for controlling the revolution of a ground warp let-off beam so as to tend to cancel deviation between a target ground warp tension and actual tension of the ground warp and the at least one weaving condition parameter includes the target ground warp

tension of the ground warp to be set, and wherein if the calculated consumption of the pile warp deviates from the tolerance, the ground warp tension of the ground warp is changed.

30. (New) The method of controlling a pile loom according to claim 23, wherein the pile loom includes a ground warp let-off control device for controlling the revolution of a ground warp let-off beam so as to tend to cancel deviation between a target ground warp tension and actual tension of the ground warp and the at least one weaving condition parameter includes the target ground warp tension of the ground warp to be set and a weft density, wherein if the calculated pile scale factor deviates from the tolerance, the target tension of the ground warp is changed and the revolution of a take-up roll is corrected so as to change the weft density of the pile fabric being produced.

31. (New) The method of controlling a pile loom according to claim 24, wherein the pile loom includes a ground warp let-off control device for controlling the revolution of a ground warp let-off beam so as to tend to cancel deviation between a target ground warp tension and actual tension of the ground warp and the at least one weaving condition parameter includes the target ground warp tension of the ground warp to be set and a weft density, wherein if the consumption of the pile warp deviates from the tolerance, the target tension of the ground warp is changed and the revolution of a take-up roll is corrected so as to change the weft density of the pile fabric being produced.

32. (New) The method of controlling a pile loom according to claim 23, wherein the pile loom includes a tension roll swingably provided thereon and around which the pile warp extends and a pile tension controller for urging the tension roll via an electric actuator for generating torque corresponding to a previously set urging force and the at least one weaving condition parameter includes the urging force to be set for urging the tension roll, and wherein if the calculated pile scale factor deviates from the tolerance, the urging force of the tension roll is corrected.

33. (New) The method of controlling a pile loom according to claim 24, wherein the pile loom includes a tension roll swingably provided thereon and around which the pile warp extends and a pile

tension controller for urging the tension roll via an electric actuator for generating torque corresponding to a previously set urging force and the at least one weaving condition parameter includes the urging force to be set for urging the tension roll, and wherein if the consumption of the pile warp deviates from the tolerance, the urging force of the tension roll is corrected.

34. (New) The method of controlling a pile loom according to claim 23, wherein the pile loom includes a tension roll swingably provided thereon and around which the pile warp extends and a pile tension controller for executing positional control over a timing period which is set within a first period when relative movement between a reed and the pile fabric for pile weaving and executing torque driving corresponding to the tension set during a period other than the first period, and the at least one weaving condition parameter includes at least one of positional control start timing and positional control end timing, respectively set, for executing positional control, and wherein if the calculated pile scale factor deviates from the tolerance, either the positional control start timing or the positional control end timing is corrected.

35. (New) The method of controlling a pile loom according to claim 24, wherein the pile loom includes a tension roll swingably provided thereon and around which the pile warp extends and a pile tension controller for executing positional control over a timing period which is set within a first period when relative movement between a reed and the pile fabric for pile weaving and executing torque driving corresponding to the tension set during a period other than the first period, and the at least one weaving condition parameter includes at least one of positional control start timing and positional control end timing, respectively set, for executing positional control, and wherein if the consumption of the pile warp deviates from the tolerance, either the positional control start timing or the positional control end timing is corrected.

36. (New) The method of controlling a pile loom according to claim 23, wherein the pile loom includes a let-off beam of the pile warp which is rotatably driven at a speed corresponding to the rotation of a take-up roll, wherein the at least one weaving condition parameter includes the speed

of the let-off beam of the pile warp, and wherein if the calculated pile scale factor deviates from the tolerance, the speed of the let-off beam of the pile warp is corrected.

37. (New) The method of controlling a pile loom according to claim 24, wherein the pile loom includes a let-off beam of the pile warp which is rotatably driven at a speed corresponding to the rotation of a take-up roll, wherein the at least one weaving condition parameter includes the speed of the let-off beam of the pile warp, and wherein if the calculated pile scale factor deviates from the tolerance, the speed of the let-off beam of the pile warp is corrected.

38. (New) The method of controlling a pile loom according to claim 23, wherein the amount of correction of the at least one weaving condition parameter is determined in response to a magnitude relation corresponding to a threshold of the tolerance.

39. (New) The method of controlling a pile loom according to claim 24, wherein the amount of correction of the at least one weaving condition parameter is determined in response to a magnitude relation corresponding to a threshold of the tolerance.

40. (New) The method of controlling a pile loom according to claim 23, wherein the amount of correction of the at least one weaving condition parameter is determined in response to the amount of deviation of the pile scale factor corresponding to the threshold of the tolerance.

41. (New) The method of controlling a pile loom according to claim 24, wherein the amount of correction of the at least one weaving condition parameter is determined in response to the amount of deviation of the pile scale factor corresponding to the threshold of the tolerance.

42. (New) The method of controlling a pile loom according to claim 32, wherein warning ranges are set beyond the tolerance and a warning signal is outputted when the calculated pile scale factor deviates from the warning ranges.

43. (New) The method of controlling a pile loom according to claim 34, wherein warning ranges are set beyond the tolerance and a warning signal is outputted when the calculated pile scale factor deviates from the warning ranges.

44. (New) The method of controlling a pile loom according to claim 36, wherein warning ranges are set beyond the tolerance and a warning signal is outputted when the calculated pile scale factor deviates from the warning ranges.